Online Examinations (Odd Sem/Part-I/Part-II Examinations 2021 - 2022)

Course Name - - Modern Radiological & Imaging Equipment Course Code - BMRIT304

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1. The X-ray tube use in portable machine is 10.

Mark only one oval.

Self-rectified

Full-wave rectified

Half-wave rectified

None of these

11.	2. The anode use in portable X-ray tube is
	Mark only one oval.
	Rotating anode
	Stationary anode
	Both
	None of these
12.	3. Actual focal spot size of portable X-ray tube is
	Mark only one oval.
	0.5mm
	1.0mm
	2mm
	211111
13.	4. Tube and generator of portable X-ray unit are enclosed in
	Mark only one oval.
	Water filled tank
	Oil filled tank
	Helium filled tank
	None of these

14.	5. Fine spot size of mobile X-ray tube anode is
	Mark only one oval.
	1.0mm
	2.0mm
	0.5mm
	0.25mm
15	4. December 21 at a Constitution of the Constitution
15.	6. Broad spot size of mobile X-ray tube anode is
	Mark only one oval.
	1.0mm
	1.5mm
	0.5mm
	2mm
16.	7. What is the maximum output of high power mobile X-ray
	Mark only one oval.
	300 mA, 125KVp
	200 mA, 125KVp
	100 mA, 90KVp
	100 mA, 100KVp

17.	8. Rectifier used in mobile X-ray tube is
	Mark only one oval.
	Self-rectifier
	Full-wave rectifier
	Half-wave rectifier
	None of these
18.	9. As mAs increases
	Mark only one oval.
	Exposure time decreases
	Exposure time will not change
	Exposure time increases
	None of these
19.	10. The mammography X-Ray tube produce
	Mark only one oval.
	Bremsstrahlung radiation
	Characteristic radiation
	Both
	None of these

20.	11. The source to image distance is used in mammography
	Mark only one oval.
	60-80 cm 100 cm 50-55 cm 80 cm
21.	12. The function of amorphous selenium photoconductor in digital mammography is
	Mark only one oval.
	X-ray into light Light into digital signal X-ray into digital signal All
22.	13. Molybdenum is the most common filter material in mammographic system. It is used because it produces: Mark only one oval.
	Characteristic radiation. Increased breast penetration. High absorption above the K-edge energy. High absorption below the K-edge energy.

23.	14. Digital mammography is computer-based. How does it compare to a standard X-Ray mammography?
	Mark only one oval.
	More accurate
	Spots smaller tumors
	Performs about the same as X-Ray
	Is less accurate
24.	15. What does CR mean?
	Mark only one oval.
	Computed Tomography
	Computerized Radiography
	Computed Radiography
	Computer Radiography
25.	16. What is a scintillator?
	Mark only one oval.
	Absorbs light and converts energy to x-rays
	Absorbs light and converts to light
	Absorbs x-rays and converts energy to light
	Absorbs x-rays and converts to carbon

26.	17. The PSP material mostly used in CR is
	Mark only one oval.
	Csl
	Nal
	a-Se
	BaFX:Eu2+
27.	18. What is a PSP?
	Mark only one oval.
	Photodiode Stimulator
	Photostimulable x-ray table
	Photodiode Phosphor plate
	Photostimulable Phosphor Plate
00	40 55
28.	19. In DR, where are the electrical charges stored?
	Mark only one oval.
	Thin Plate Transistors TPTs
	Titanium Film Transistors TFTs
	Thin Film Transistors TFTs
	Thin Photodiode Transistors TPTs

29.	20. A patient undergoes two AP radiographic examinations of the abdomen on the same high frequency X-ray unit. The settings are: (1) 85 kV, 350 mA and 0.2s; (2) 85 kV, 600 mA and 0.15s. The entrance skin dose of examination (2) relative to that of the first examination is about:
	Mark only one oval.
	30% less.
	10% less.
	10% greater.
	30% greater.
30.	21. Pulsed fluoroscopy is generally used to:
	Mark only one oval.
	Reduce motion blur.
	Reduce patient dose.
	Reduce the effective focal spot size.
	Increase kVp stabilization.
31.	22. An 8:1 grid is replaced with a 12:1 grid. This will have the effect of:
	Mark only one oval.
	Increasing contrast and patient radiation dose.
	Increasing contrast with no change in patient radiation dose
	Increasing contrast and reducing patient radiation dose.
	Decreasing contrast and patient radiation dose.

32.	23. In digital subtraction angiography (DSA), video cameras are generally used in the progressive scan mode. This implies:
	Mark only one oval.
	Repeated scanning of the same video image to improve signal-to-noise ratio.
	Scanning adjacent raster lines sequentially after termination of the X-ray exposure.
	Scanning the video camera target at appropriate intervals during the X-ray exposure.
	Use of a double interlaced vidicon beam.
33.	24. What does Digital Imaging require?
	Mark only one oval.
	Hardware & Software applications to process images
	Systematic application of highly complex mathematical formulas called Algorithms
	Film
	Both (Hardware & Software applications to process images) and (Systematic application of highly complex mathematical formulas called Algorithms)
34.	25. Contrast can be modified in
	Mark only one oval.
	Conventional radiography
	Fluoroscopy
	None
	Digital radiography

35.	26. Computed Tomography (CT) results in a/an
	Mark only one oval.
	Analog image
	Linear image
	Digital image
	Image in time
36.	27. The principal advantage of CT over projection radiography is
	Mark only one oval.
	Speed of image acquisition
	Energy resolution
	Contrast resolution
	Spatial resolution
37.	28. Which of the following terms does not fit?
	Mark only one oval.
	Section
	Slice
	Tomos
	Volume

38.	29. Computed tomography is otherwise identified as
	Mark only one oval.
	Emission tomography
	Transmission tomography
	Reflection tomography
	Volumetric tomography
39.	30. Which of the following involves emission of a signal from a patient?
	Mark only one oval.
	СТ
	Diagnostic ultrasound
	Magnetic resonance imaging
	Projection radiography
40.	31. The data acquisition in CT results in a/an
	Mark only one oval.
	Oblique image
	Transverse image
	Sagittal image
	Coronal image

41.	32. Which of the following scientists received the nobel prize for their work leading to CT? 1. Alan Cormack 2. Raymond Damadian 3. Geodfrey Hounsfield 4. Paul Lauterbur
	Mark only one oval.
	Only 1,2 and 3 are correct
	Only 1 and 3 are correct
	Only 2 and 3 are correct
	Only 4 is correct
42.	33. Which of the following are characteristic limitations of CT? 1. Spatial resolution 2. Artifact generation 3. Z-axis resolution 4. patient dose
	Mark only one oval.
	Only 1, 2, and 3 are correct
	Only 1 and 3 are correct
	Only 2 and 4 are correct
	Only 4 is correct
43.	34. The mathematics of back projection applied to image reconstruction in CT is credited to:
	Mark only one oval.
	Alan cormack
	Raymond Damadian
	Geofrey Hounsfield
	Frank Lauterbur

44.	35. The term "projection" when applied to CT, refers to
	Mark only one oval.
	Speed of image acquisition
	A data set representing x-ray attenuation in the patient
	The size of the x-ray beam projected on the patient
	The shape of the x-ray beam projected on the patient
45.	36. Which of the following image modalities are likely to have Isess scatter radiation affecting the image?
	Mark only one oval.
	Fluoroscopy
	Projection of radiography
	Conventional tomography
	СТ
46.	37. The first CT image was demonstrated by
40.	
	Mark only one oval.
	Alan Cormack
	Raymond Damadian
	Geodfrey Hounsfield
	Frank Lauterbur

4/.	38. Image presentation in conventional tomography is
	Mark only one oval.
	Axial
	Coronal
	Sagittal
	Volumetric
48.	39. Compared to projection radiography, conventional tomography results in improved contrast resolution because
	Mark only one oval.
	Imaging time is reduced
	Out of plane tissues are blurred
	The x-ray beam is selectively filtered
	All of these
49.	40. CT stands for
	Mark only one oval.
	Controlled tomography
	Computed tomography
	Converted tomography
	Comparison tomography

50.	41. ECT stands for
	Mark only one oval.
	Electro cardio tomography
	Electro capacitive tomography
	Electro converging tomography
	Electro Cornial tomography
51.	42. Which of the following is not possible?
	Mark only one oval.
	ECT
	ERT
	Fibre optic tomography
	None of the mentioned
52.	43. The substratum layer or binding layer is made-up
	Mark only one oval.
	Silver bromide crystals
	Gelatin plus acetone and water
	Gelatin
	None of these

53.	44. Which is not true film latitude?
	Mark only one oval.
	Is range of exposures to produce useful range of densities Normal latitude of film screen is 40:1
	Film latitude and gamma are directly related
	High film latitude requires for chest X-rays
54.	45. Digital radiography categorized into type?
	Mark only one oval.
	2
	3
	4
	5
55.	46. Venography is the study of
	Mark only one oval.
	Vein
	Artery
	All
	None

56.	47. Lower extremity angiography refers to which part of the body
	Mark only one oval.
	Leg Hand
	Abdomen
	None
57.	48. Upper extremity angiography refers to which part of the body
57.	
	Mark only one oval.
	Hand
	Leg
	Abdomen
	All
58.	49. Rare earth screen are all except of the following
	Mark only one oval.
	Lanthanum oxybromide
	Lanthanum oxysulphide
	Calcium tungstate
	Gadolinium oxysulphide

59.	50. Which of the following phosphor not used in intensifying screen
	Mark only one oval.
	Calcium tungstate
	Zinc cadmium sulfide
	Terbium
	Thulium blue
60.	51. Single screen cassettes are used in
	Mark only one oval.
	Mammography
	Angiography
	Orthodontic radiography
	Ultrasound
61.	52. What is sandwiched between intensifying screens in the x-ray cassette?
	Mark only one oval.
	Beam restrictor
	Filter
	Film
	Compressive material

62.	53. Closest to x-ray film. 10-20 um thick
	Mark only one oval.
	Phosphor layer
	Base
	Reflexive layer
	Protective layer
4.0	
63.	54. In IVU, scout film is taken
	Mark only one oval.
	To check the exposure factors
	To check bowel preparation
	To see any calculus
	All of these
64.	55. In IVU, what is the name of radiograph which is taken after 5 minutes of
	injection of contrast media?
	Mark only one oval.
	Nephrogram
	Ureterogram
	Pyelogram
	Full film

65.	56. 1 F =
	Mark only one oval.
	0.0131 inch
	0.254 inch
	0.314 inch
	0.894 inch
66.	57. Normal liver shows
	Mark only one oval.
	Increased T1 signal
	Increased T2 signal
	Decreased T1 signal
	Decreased T2 signal
67.	58. Biliary contrast media are
	Mark only one oval.
	Monoiodobenzoic acid derivatives
	Triiodobenzoic acid derivatives
	lodic acid derivativies
	Barium derivatives

68.	59. ASP stands for
	Mark only one oval.
	Application service provider
	Application specialist panel
	None
	All of these
69.	60. RIS stands for
	Mark only one oval.
	Radiology imaging system
	Radiology information system
	Radiological imaging system
	None of these

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